U.S. Environmental Protection Agency
Applicability Determination Index

Control Number: NR61

Category: NSPS
EPA Office: Region 5
Date: 05/15/1990
Title: NSPS Calibration Gas Requirements
Recipient: Brewster, J.N.
Author: Czerniak, George T.

Subparts: Part 60, VV, SOCMI Equipment Leaks

References: 60.480
60.485
60.485(b)(4)(ii)

Abstract:

Can 3,000 ppm n-hexane be used to calibrate a VOC emission analyzer?

The use of 3,000 ppm n-hexane for calibrating a Bacharach TLV Sniffers was determined to be acceptable for compliance with 40 CFR 60.485 since the company has demonstrated that calibration at that concentration results in a calibration precision equal to or less than 10% (300ppm).

Letter:

Control Number: NR61

May 15 1990

Region 5

J.N. Brewster
Manager Environmental Conservation
Wood River Manufacturing Complex
Shell Oil Company
P.O. Box 262
Wood River, Illinois 62095

Dear Mr. Brewster:

The United States Environmental Protection Agency (U.S. EPA), Region V, has reviewed your April 23, 1990, request to use an alternative calibration gas for fugitive volatile organic compound (VOC) emission analyzers. Specifically, you requested that the use of 3,000 ppm n- hexane for calibrating your Bacharach TLV Sniffers be acceptable for compliance with 40 C.F.R. 60.485, Test Methods and Procedures under the New Source Performance Standards (NSPS) for VOC Equipment Leaks. The fugitive VOC NSPS requires calibration at a concentration of approximately, but less than 10,000 ppm methane or n-hexane in air. 40 C.F.R. 60.485(b)(4)(ii).

U.S. EPA does not object to the use of 3,000 ppm n-hexane as the calibration gas since Shell Oil has demonstrated that calibration at that concentration results in a calibration precision equal to or less than 10 percent (300 ppm) at an n-hexane concentration of 3,000 ppm.

If you have any questions or comments please call Spiros Bourgikos of my staff at (312) 886-6862.

Sincerely yours,
(signed)
George Czerniak, Chief
Compliance Section I